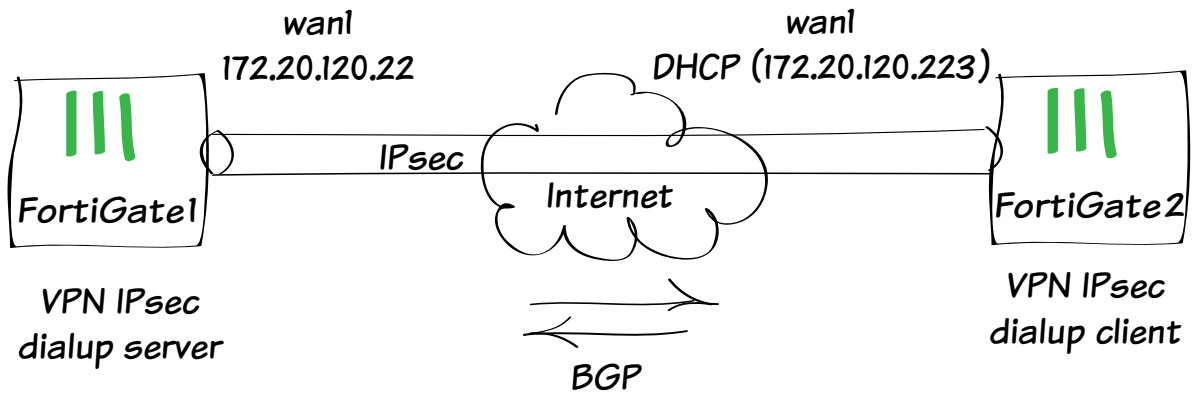
# Setting up BGP over a dynamic IPsec VPN between two FortiGates

This example shows how to create a dynamic IPsec VPN tunnel and allowing BGP to establish through it.

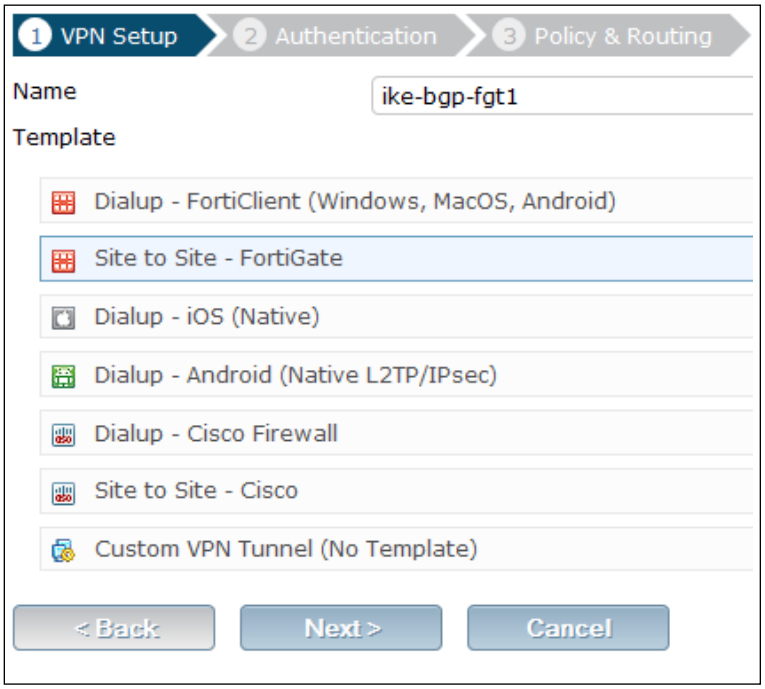

1. Configuring IPsec in Fortigate1
2. Configuring IPsec in FortiGate2
3. Verifying tunnel is UP
4. Configuring BGP in FortiGate1
5. Configuring BGP in FortiGate2
6. Results

## 1. Configuring IPsec in FortiGate 1

Go to **VPN > IPsec > Wizard** and select **Site to Site - FortiGate**.

Click **Next.**

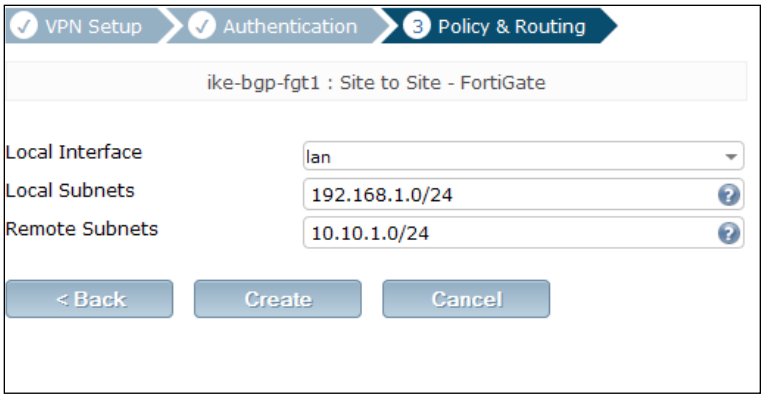



Set **Remote Gateway, Outgoing Interface** and **Pre-shared Key**.

Click **Next.**

Set **Local Interface, Local** and **Remote Subnets.**

Click **Create.**

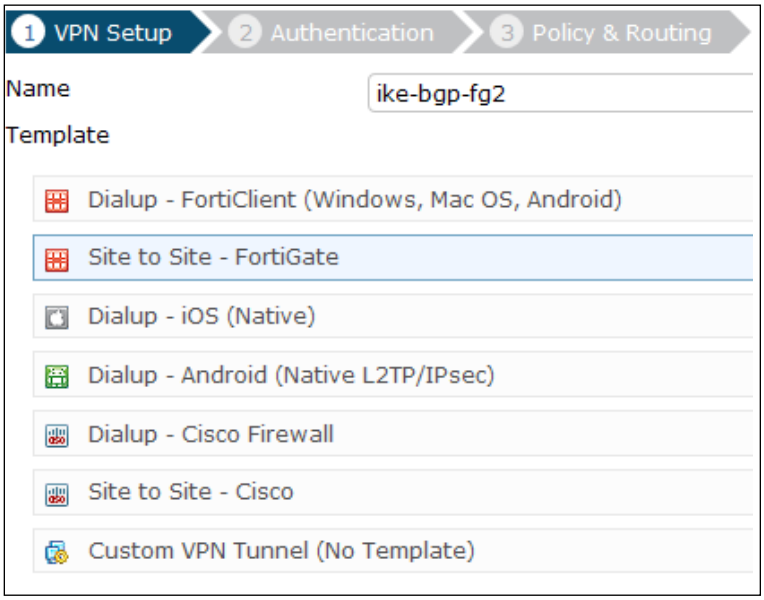



FortiGate then will create phase 1, phase 2, static route, local and remote address group, local to remote and remote to local security policies.

## 2. Configuring IPsec in FortiGate 2

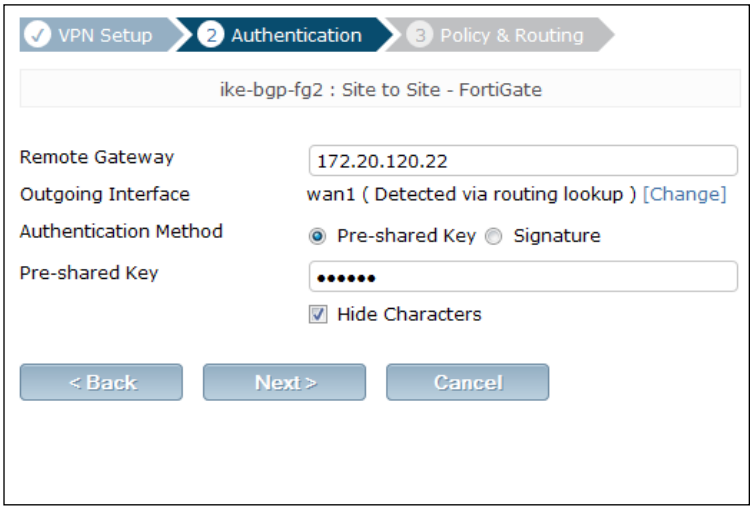
Go to **VPN > IPsec > Wizard** and select **Site to Site - FortiGate**.

Click **Next.**



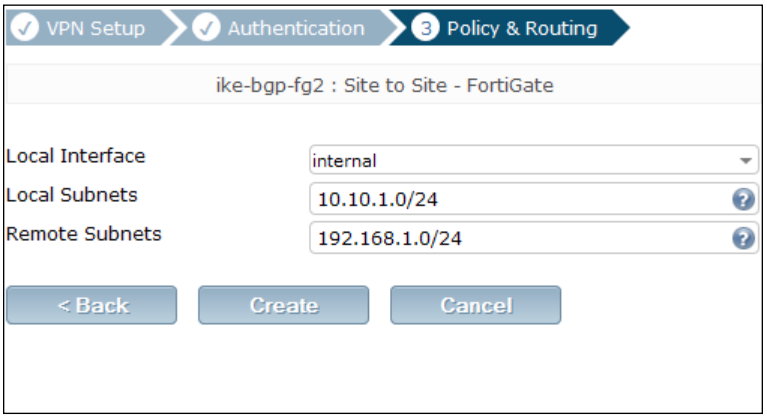

Set **Remote Gateway, Outgoing Interface** and **Pre-shared Key**.

Click **Next.**



Set **Local Interface, Local** and **Remote Subnets.**

Click **Create.**




FortiGate then will create phase 1, phase 2, static route, local and remote address group, local to remote and remote to local security policies.


## 3. Verifying tunnel is UP

Go to **VPN > Monitor > IPsec Monitor** to verify that the tunnel is **UP**.

## 4. Configuring BGP in FortiGate 1

Go to **System > Status** to look for **CLI Console** widget and type the following:

```
config router bgp
    set as 1
    set router-id 172.20.120.22
        config neighbor
            edit "172.20.120.223"
                set remote-as 2
            next
        end
        config redistribute "connected"
            set status enable
        end
        config redistribute "static"
            set status enable
        end
end
```

## 5. Configuring BGP in FortiGate 2

Go to **System > Status** to look for **CLI Console** widget and type the following:

```
config router bgp
    set as 2
    set router-id 172.20.120.223
        config neighbor
            edit "172.20.120.22"
                set remote-as 1
            next
        end
        config redistribute "connected"
            set status enable
        end
        config redistribute "static"
            set status enable
        end
end
```

## 6. Results

From FortiGate 1, Go to **Router > Monitor > Routing Monitor** and verify that routes from FortiGate 2 were successfully advertised to FortiGate 1 via BGP.

| Type | Network | Gateway | Interface | Up Time |
|---|---|---|---|---|
| Static | 0.0.0.0/0 | 0.0.0.0 | fext-wan1 | |
| Static | 0.0.0.0/0 | 25.52.81.253 | fext-wan1 | |
| Static | 10.10.1.0/24 | 0.0.0.0 | ike-bgp-fgt1 | |
| BGP | 10.10.80.0/24 | 172.20.120.223 | wan1 | 0 00:31:21 |
| Connected | 25.52.81.0/24 | 0.0.0.0 | fext-wan1 | |
| Connected | 169.254.1.1/32 | 0.0.0.0 | ssl.root | |
| Connected | 169.254.1.1/32 | 0.0.0.0 | ssl.root | |
| Connected | 172.20.120.0/24 | 0.0.0.0 | wan1 | |
| Connected | 192.168.1.0/24 | 0.0.0.0 | lan | |
| Connected | ::1/128 | :: | root | |

From FortiGate 2, Go to **Router > Monitor > Routing Monitor** and verify that routes from FortiGate 1 were successfully advertised to FortiGate 2 via BGP.

| Type | Network | Gateway | Interface | Up Time |
|---|---|---|---|---|
| Static | 0.0.0.0/0 | 172.20.120.2 | wan1 | |
| Connected | 10.10.1.0/24 | 0.0.0.0 | internal | |
| Connected | 10.10.80.0/24 | 0.0.0.0 | wifi | |
| BGP | 25.52.81.0/24 | 172.20.120.22 | wan1 | 0 00:52:04 |
| BGP | 169.254.1.1/32 | 172.20.120.22 | wan1 | 0 00:52:04 |
| Connected | 172.20.120.0/24 | 0.0.0.0 | wan1 | |
| Static | 192.168.1.0/24 | 0.0.0.0 | ike-bgp-fg2 | |
| Connected | ::1/128 | :: | root | |